

**IN THE SPECIFICATION:**

Please amend the title appearing on the Abstract page at lines 3 and 4 as follows:

**FLUID LOSS REDUCER FOR HIGH TEMPERATURE TEMPERATURE AND HIGH  
PRESSURE WATER-BASED MUD APPLICATION**

Please amend the paragraph appearing on page 8, lines 16-28 as follows:

The typical but non-limiting examples of suitable polymers, that are useful in this invention, are commercially available from a wide variety of sources. For instance, Eliokem sells styrene-acrylate or styrene-butadiene copolymers under the trade name Pliolite<sup>®</sup> PLIOLITE<sup>®</sup>, such as Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> DF01 polymer, Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> DF02 polymer, Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> DF03 polymer, Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> VTAC-H polymer, Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> VT polymer and Pliolite<sup>®</sup> PLIOLITE<sup>®</sup> Ultra 200<sup>®</sup> polymer, substituted styrene-acrylate copolymers under the trade name Plioway<sup>®</sup> PLIOWAY<sup>®</sup>; Rohm sells acrylate resins under the trade name Plex<sup>®</sup> PLEX<sup>®</sup>, Goodyear Chemicals sells styrene-butadiene rubber under the trade name Plioflex<sup>®</sup> PLIOFLEX<sup>®</sup>; Kraton S.A. sells block copolymers styrene-butadiene and their hydrogenated version under the trade name Kraton<sup>®</sup> KRATON<sup>®</sup>.

Please amend the paragraph appearing on page 11, lines 24-29 as follows:

The preparation of an oil emulsion is as follows:

First, 100 grams of RADIAGREEN<sup>®</sup> base oil (~~Ex: Radiagreen<sup>®</sup>~~) is mixed with 33.3 grams of Disponil FES<sup>®</sup> emulsifier (~~Disponil FES<sup>®</sup>~~) and kept under stirring for 5 minutes. Then, 36.7 grams of water are slowly incorporated to the oil/ emulsifier mixture which is stirred under high shear for 20 minutes.

Please amend the paragraphs appearing on page 15, lines 2-15 as follows:

Filtration value in ml is significantly reduced when polymer such as VTACH<sup>®</sup> polymer, U200 polymer, XPR036 polymer, ~~Pliolite VT<sup>®</sup>~~ PLIOLITE<sup>®</sup> VT polymer, or ~~Kraton G<sup>®</sup>~~ KRATON<sup>®</sup> G polymer was added in re-emulsified form in the standard water-based drilling fluid formulation. This value is further reduced when the above polymer is replaced by a cross-linked polymer such as ~~Pliolite~~ PLIOLITE<sup>®</sup> DF01, DF02, DF03, CPR7676, CPR7755 polymers. Replacement in water-based mud of fluid loss reducers by the polymer emulsion leads to equivalent level of filtration versus water-based mud.

As it can be seen in Table III, filtration value in ml is significantly reduced after high temperature aging when cross-linked polymer such as ~~Pliolite DF01<sup>®</sup>~~ PLIOLITE<sup>®</sup> DF01 was used with an emulsifier package (~~Disponil FES<sup>®</sup>/Kleemul<sup>®</sup>~~) (DISPONIL<sup>®</sup> FES emulsifier and KLEEMUL<sup>®</sup> emulsifier) in the standard water-based drilling fluid formulation.